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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

CERTIFICATE OF MAILING I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as First Class Mail in an envelope addressed to Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on 6.12.03 Date Signature Typed or printed name of person signing certificate

REVOCATION OF POWERS OF ATTORNEY AND APPOINTMENT OF NEW ATTORNEYS AND/OR AGENTS AND CHANGE OF CORRESPONDENCE ADDRESS

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

Massachusetts Institute of Technology, a corporation duly organized under the laws of the Commonwealth of Massachusetts, together with The Penn State Research Foundation, a corporation organized and existing under the laws of the State of Pennsylvania, are the assignees of the entire right, title and interest in the patent applications/patents identified in Attachment A. Massachusetts Institute of Technology and The Penn State Research Foundation hereby appoints Carolyn S. Elmore, Registration No. 37,567 and Anne I. Craig, Registration Number 32,976, and/or agents associated with:

Elmore Craig, P.C. 209 Main Street No. Chelmsford, Massachusetts 01863

to prosecute the identified applications/patents and any divisions or continuations thereof and to conduct all business in the United States Patent and Trademark Office. All previously granted Powers of Attorney are hereby revoked.

Statements under 37 C.F.R. §3.73(b) with Attachment A are submitted herewith.

All correspondence should be sent to Elmore Craig, P.C., 209 Main Street, No. Chelmsford, Massachusetts 01863. Please direct all telephone calls to Carolyn S. Elmore, Esq. at (978) 273-3298.

Respectfully submitted,
Massachusetts Institute of Technology
By The M. Felipsion
Title: Patent Administrator
Date May 23, 2003
The Penn State Research Foundation
Ву:
Title:
Date:

ATTACHMENT A

Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, and Robert S. Langer	Atty. Docket N	o.: 2846.1001-000
Application No.:	08/655,570	Group:	1615
Filed:	May 24, 1996	Examiner:	R. Bawa
Confirmation No.:	N/A		
Title:	Porous Particles for Pulmonary Drug Delivery		
Patent No.:	N/A	Granted: N/A	
Assignee:	 Massachusetts Institute of Technology The Penn State Research Foundation 		
Recordation Date:	1. July 26, 1996 2. March 5, 1998	Reel: 1. 9013 2. 8875	Frames: 1. 0930-0934 2. 0876-0885

Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Abdellaziz Ben-Jebria and Robert S. Langer	Atty. Docket No	o.: 2846.1001-001	
Application No.:	09/194,068	Group:	1619	
Filed:	May 23, 1997 (Int'l Filing Date) April 8, 1999 (371(c) Date)	Examiner:	R. Bawa	
Confirmation No.:	2765			
Title:	Aerodynamically Light P	articles for Pulmon	ary Drug Delivery	
Patent No.:	6,503,480	Granted: January 7, 2003		
Assignee:	 Massachusetts Institute of Technology The Penn State Research Foundation 			
Recordation Date:	 April 8, 1999 April 8, 1999 	Reel: 1. 9923 2. 9925	Frames: 1. 0384-0392 2. 0098-0103	
Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Robert S. Langer and Abdellaziz Ben-Jebria	Atty. Docket No.	:2846.1001-007	
Application No.:	09/569,153	Group:	1619	
Filed:	May 11, 2000	Examiner:	R. Bawa	
Confirmation No.:	N/A			
Title:	Porous Particles for Deep Lung Delivery (As Amended)			
Patent No.:	6,254,854	Granted: July 3,	2001	
Assignee:	 The Penn State Research Massachusetts Institute 			
Recordation Date:	 October 30, 2000 July 26, 1996 	Reel: 1. 011211 2. 8875	Frames: 1. 0319-0321 2. 0876-0875	

Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Robert S. Langer and Abdellaziz Ben-Jebria	Atty. Docket No.: 2846.1001-008		
Application No.:	09/888,688	Group: 1616		
Filed:	June 25, 2001	Examiner: R. Bawa		
Confirmation No.:	2505			
Title:	Porous Particles Compris Amended)	ing Excipients For Deep Lung Delivery (As		
Patent No.:	6,436,443B2	Granted: August 20, 2002		
Assignee:	 The Penn State Resear Massachusetts Institut 			
Recordation Date:	1. October 30, 2000 2. July 26, 1996	Reel: 1. 011211 Frames: 1. 0319-0321 2. 8875 2. 0876-0875		
Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Robert S. Langer and Abdellaziz Ben-Jebria	Atty. Docket No.: 2846.1001-009		
Application No.:	09/891,131	Group: 1616		
Filed:	June 25, 2001	Examiner: Mina Haghighatian		
Confirmation No.:	2511			
Title:	Spray Dried Porous Partic	les For Deep Lung Delivery (As Amended)		
Patent No.:	6,447,753	Granted: September 10, 2002		
Assignee:		State Research Foundation usetts Institute of Technology		
Recordation Date:	 October 30, 2000 July 26, 1996 	Reel: 1. 011211 Frames: 1. 0319-0321 2. 8875 2. 0876-0875		

Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Robert S. Langer, and Abdellaziz Ben-Jebria		: 2846.1001-010	
Application No.:	09/888,781	Group:	1616	
Filed:	June 25, 2001	Examiner:	Mina Haghighatian	
Confirmation No.:	9010			
Title:	Amorphous Porous Partic	cles For Deep Lung	Delivery (As Amended)	
Patent No.:	6,447,752	Granted: Septer	mber 10, 2002	
Assignee:		nn State Research Foundation chusetts Institute of Technology		
Recordation Date:	 October 30, 2000 July 26, 1996 	Reel: 1. 011211 2. 8875	Frames: 1. 0319-0321 2. 0876-0875	
Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Abdellaziz Ben-Jebria and Robert S. Langer	Atty. Docket No.:	2846.1001-028	
Application No.:	10/090,418	Group:	1617	
Filed:	March 1, 2002	Examiner:	n/a	
Confirmation No.:	8180			
Title:	Aerodynamically Light Pa	Aerodynamically Light Particles For Pulmonary Drug Delivery		
Patent No.:	N/A	Granted: N/A		
Assignee:		The Penn State Research Foundation Massachusetts Institute of Technology		
Recordation Date:	1. April 8, 1999 2. April 8, 1999	Reel: 1. 9925 2. 9923	Frame(s): 1. 0098-0102 2. 0384-0392	

Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Robert S. Langer, and Abdellaziz Ben-Jebria	Atty. Docket No.: 2846.1001-031	
Application No.:	10/209,654	Group: 1616	
Filed:	July 30, 2002	Examiner: Not assigned	
Confirmation No.:	5830		
Title:	Porous Particles Compri	sing Excipients For Deep Lung Delivery	
Patent No.:	N/A	Granted: N/A	
Assignee:	 Massachusetts Institute of Technology The Penn State Research Foundation 		
Recordation Date:	1. March 5, 1998 2. October 30, 2000	Reel: 1. 9013 Frames: 1. 0930-0934 2. 011211 2. 0319-0321	
Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Abdellaziz Ben-Jebria, and Robert S. Langer	Atty. Docket No.: 2846.1002-000	
Application No.:	08/739,308	Group: 1615	
Filed:	October 29, 1996	Examiner: Raj Bawa	
Confirmation No.:	N/A		
Title:	Aerodynamically Light Particles For Pulmonary Drug Delivery		
Patent No.:	5,874,064	Granted: February 23, 1999	
Assignee:	 Massachusetts Institute of Technology The Penn State Research Foundation 		
Recordation Date:	1. January 17, 1997 2. January 17, 1997	Reel: 1. 8388 Frames: 1. 0959-0965 2. 8388 2. 0917-0918	

Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Abdellaziz Ben-Jebria, and Robert S. Langer	Atty. Docket No	o.: 2846.1002-001	
Application No.:	09/211,940	Group:	1615	
Filed:	December 15, 1998	Examiner:	S. Howard	
Confirmation No.:	N/A			
Title:	Aerodynamically Light Pa	rticles For Pulmo	nary Drug Delivery	
Patent No.:	6,136,295	Granted: Octo	ber 24, 2000	
Assignee:	 Massachusetts Institute The Penn State Research 			
Recordation Date:	 January 17, 1997 January 17, 1997 	Reel: 1. 8388 2. 8388	Frames: 1. 0959-0965 2. 0917-0918	
Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Abdellaziz Ben-Jebria, and Robert s. Langer	Atty. Docket No.: 2846.1002-002		
Application No.:	09/562,988	Group:	1615	
Filed:	May 1, 2000	Examiner:	S. Howard	
Confirmation No.:	N/A			
Title:	Aerodynamically Light Par	ticles For Pulmon	ary Drug Delivery	
Patent No.:	6,399,102	Granted: June 4, 2002		
Assignee:	 The Penn State Research Foundation Massachusetts Institute of Technology 			
Recordation Date:	1. August 29, 2000	Reel: 1, 011098	Frames: 1. 0746-0749	

Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Abdellaziz Ben-Jebria, and Robert S. Langer	Atty. Docket N	No.: 2846.1002-003	
Application No.:	90/006,092	Group:	1616	
Filed:	August 22, 2001	Examiner:	Mina Haghighatian	
Confirmation No.:	7468			
Title:	Aerodynamically Light Par	ticles For Pulmor	nary Drug Delivery	
Patent No.:	5,874,064C1	Certificate Issu	led: December 10, 2002	
Assignee:	 Massachusetts Institute The Penn State Research 			
Recordation Date:	 January 17, 1997 January 17, 1997 	Reel: 1. 8388 2. 8388	Frames: 1. 0959-0965 2. 0917-0918	
Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Abdellaziz Ben-Jebria, and Robert S. Langer	Atty. Docket N	o.: 2846.1002-004	
Application No.:	90/006,094	Group:	1616	
Filed:	August 22, 2001	Examiner:	Mina Haghighatian	
Confirmation No.:	7466			
Title:	Aerodynamically Light Part	icles For Pulmon	ary Drug Delivery	
Patent No.:	6,136,295C1	Granted: October 29, 2002		
Assignee:	 Massachusetts Institute o The Penn State Research 			
Recordation Date:	1. January 17, 1997 2. January 17, 1997	Reel: 1. 8388 2. 8388	Frames: 1. 0959-0965 2. 0917-0918	

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Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Abdellazai Ben-Jebria, and Robert S. Langer	Atty. Docket No.: 2846.1002-005	
Application No.:	10/027,212	Group: 1615	
Filed:	December 20, 2001	Examiner: Sharon Lee Howard	
Confirmation No.:	1760		
Title:	Aerodynamically Light Par	ticles For Pulmonary Drug Delivery	
Patent No.:	N/A	Granted: N/A	
Assignee:	 The Penn State Research Massachusetts Institute 		
Recordation Date:	 August 29, 2000 August 29, 2000 	Reel: 1. 011098 Frames: 1. 0746-0749 2. 011098 2. 0720-0724	
	The second secon		
Applicants:	Justin Hanes, David A. Edwards, Carmen Evora, and Robert L. Langer	Atty. Docket No.: 2846.1003-000	
Application No.:	08/784,421	Group: 1615	
Filed:	January 16, 1997	Examiner: G. Kishore	
Confirmation No.:	N/A		
Title:	Particles Incorporating Surfactants For Pulmonary Drug Delivery		
Patent No.:	5,855,913	Granted: January 5, 1999	
Assignee:	 Massachusetts Institute of Technology The Penn State Research Foundation 		
Recordation Date:	1. March 20, 1997 2. March 20, 1997	Reel: 1. 8531 Frames: 1. 0042-0046 2. 8529 2. 0138-0140	

Applicants:	David A. Edwards, Robert S. Langer, Rita Vanbever, Jeffrey Mintzes, Jue Wang, and Donghao Chen		o.: 2846.1003-006
Application No.:	09/394,233	Group:	1616
Filed:	September 13, 1999	Examiner:	Mina Haghighatian
Confirmation No.:	3922		
Title:	Preparation of Novel Part	icles For Inhalatio	n
Patent No.:	N/A	Granted: N/A	
Assignee:	 Massachusetts Institute of Technology The Penn State Research Foundation 		
Recordation Date:	1. January 3, 2000 2. January 3, 2000	Reel: 1. 010504 2. 010504	Frames: 1. 0362-0367 2. 0329-0333
Applicants:	Justin Hanes, David A. Edwards, Carmen Evora, and Robert S. Langer	Atty. Docket No.	: 2846.1003-007
Application No.:	09/351,341	Group:	1615
Filed:	July 12, 1999	Examiner:	G. Kishore
Confirmation No.:	N/A		
Title:	Particles Incorporating Sur	rfactants For Pulm	onary Drug Delivery
Patent No.:	RE37,053 E		
Assignee:	Massachusetts Institute of Technology The Penn State Research Foundation		
Recordation Date:	1. March 20, 1997 2. March 20, 1997	Reel: 1. 8531 2. 8529	Frames: 1. 0042-0046 2. 0138-0140

Applicants:	David A. Edwards, Robert S. Langer, Rita Vanbever, Jeffrey Mintzes, Jue Wang and Donghao Chen	Atty. Docket No	o.: 2846.1003-008	
Application No.:	08/971,791	Group:	1616	
Filed:	November 17, 1997	Examiner:	K. Shelborne	
Confirmation No.:	N/A			
Title:	Preparation of Particles For	Inhalation		
Patent No.:	5,985,309	Granted: Nove	ember 16, 1999	
Assignee:	 Massachusetts Institute of the Penn State Research 			
Recordation Date:	 December 22, 1997 December 22, 1997 	Reel: 1. 9108 2. 9108	Frames: 1. 0667-0671 2. 0695-0702	
Applicants:	David A. Edwards, Robert S. Langer, Rita Vanbever, Jeffrey Mintzes, Jue Wang, and Donghao Chen	Atty. Docket No	.: 2846.1003-009	
Application No.:	09/752,106	Group:	1616	
Filed:	December 29, 2000	Examiner:	Mina Haghighatian	
Confirmation No.:	8230			
Title:	Particles For Inhalation Having Sustained Release Properties			
Patent No.:	N/A	Granted: N/A		
Assignee:	 Massachusetts Institute of Technology The Penn State Research Foundation 			
Recordation Date:	1. August 13, 2001 2. August 13, 2001	Reel: 1. 012078 2. 012078	Frames: 1. 0137-0140 2. 0156-0164	

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Applicants:	David A. Edwards, Robert S. Langer, Rita Vanbever, Jeffrey Mintzes, Jue Wang, and Donghao Chen	Atty. Docket No.	: 2846.1003-010
Application No.:	09/909,145	Group:	1619
Filed:	July 19, 2001	Examiner:	Not Assigned
Confirmation No.:	7807		
Title:	Particles For Inhalation H	laving Sustained Re	elease Properties
Patent No.:	N/A	Granted: N/A	
Assignee:	 Massachusetts Institute of Technology The Penn State Research Foundation 		
Recordation Date:	1. January 3, 2000 2. January 3, 2000	Reel: 1. 010504 2. 010504	Frames: 1. 0362-0367 2. 0329-0333
Applicants:	Rita Vanbever, Jeffrey Mintzes, Jue Wang, Donghao Chen, Robert S. Langer, and David A. Edwards	Atty. Docket No.:	: 2846.1003-011
Application No.:	60/059,004	Group:	N/A
Filed:	September 15, 1997	Examiner:	N/A
Confirmation No.:	N/A		
Title:	Preparation of Novel Parti	cles for Inhalation	
Patent No.:	N/A	Granted: N/A	
Assignee:	N/A		
Recordation Date:	N/A	Reel: N/A	Frame(s): N/A

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Applicants:	David A. Edwards, Robert S. Langer, Rita Vanbever, Jeffrey Mintzes, Jue Wang, and Donghao Chen	Atty. Docket No	.: 2846.1003-012	
Application No.:	09/006,091	Group:	1616	
Filed:	July 12, 1999	Examiner:	Mina Haghighatian	
Confirmation No.:	7469			
Title:	Particles Incorporating Sur	factants For Pulm	nonary Drug Delivery	
Patent No.:	RE37,053	Granted: Febru	ary 13, 2001	
Assignee:	 Massachusetts Institute The Penn State Researc 			
Recordation Date:	 March 20, 1997 March 20, 1997 	Reel: 1. 8531 2. 8529	Frames: 1. 0042-0046 2. 0138-0140	
Applicants:	David A. Edwards, Robert S. Langer, Rita Vanbever, Jeffrey Mintzes, Jue Wang, and Donghao Chen	Atty. Docket N	o.: 2846.1003-013	
Application No.:	90/006,093	Group:	1616	
Filed:	August 22, 2001	Examiner:	Mina Haghighatian	
Confirmation No.:	7467			
Title:	Preparation Of Particles Fo	r Inhalation		
Patent No.:	5,985,309 C1	Granted: Dece	ember 31, 2002	
Assignee:	 Massachusetts Institute The Penn State Research 			
Recordation Date:	1. December 22, 1997 2. December 22, 1997	Reel: 1. 9108 2. 9108	Frames: 1. 0667-0671 2. 0695-0702	

Applicants:	Rita Vanbever, Robert S. Langer, David A. Edwards, Jeffrey Mintzes, Jue Wang, and Donghao Chen	Atty. Docket No.	: 2846.1003-014
Application No.:	10/094,955	Group:	1616
Filed:	March 7, 2002	Examiner:	Mina Haghighatian
Confirmation No.:	7624		
Title:	Particles For Inhalation Hav	ving Sustained Rele	ease Properties
Patent No.:	N/A	Granted: N/A	
Assignee:	 The Penn State Research Massachusetts Institute of 		
Recordation Date:	 November 7, 2002 November 7, 2002 	Reel: 1. 013470 2. 013468	Frames: 1. 0864-0867 2. 0360-0368
Application No.:	10/420,071	Group:	Not assigned
Filed:	April 18, 2003	Examiner:	Not assigned
Confirmation No.:	N/A		
Title:	Particles for Inhalation Havi	ng Sustained Relea	ase Properties
Patent No.:	N/A	Granted: N/A	
Assignee:	 Massachusetts Institute of The Penn State Research 		
Recordation Date:	1. August 13, 2001 2. August 13, 2001	Reel: 1. 012078 2. 012078	Frames: 1. 0156-0164 2. 0137-0140



STATEMENT UNDER 37 C.F.R. § 3.73(b)

	M	assachusetts Institute of Technology	, a corporation ,
		(Name of Assignee)	(Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)
states th	nat it is		
A.	[X]		enn State Research Foundation, of the entire right, title and interest in the tified in the attached Attachment A; or
B.	[]	an assignee together with [above.] of the entire right, title and interest in the patent application identified
The rigi	ht, title a	and interest of the above-named assi	gnee in the patent application identified above is established by virtue of:
A. [X]	An ass recorde attache	ed in the Patent and Trademark Offi	patent application(s)/patents identified in Attachment A. The assignment watce at the Reel(s) and Frame(s) indicated in Attachment A, or a copy thereof
OR			
B.[]	A chair	n of title from the inventor(s) of the	patent application identified above, to the current assignee as shown below:
	1.	From: The document was recorded in the Reel , Frame	To: e Patent and Trademark Office at, or a copy thereof is attached.
	2.	From: The document was recorded in the Reel , Frame	To: e Patent and Trademark Office at, or a copy thereof is attached.
	3.	From: The document was recorded in the Reel , Frame	To: e Patent and Trademark Office at, or a copy thereof is attached.
	[] A	dditional documents in the chain of	title are listed on a supplemental sheet.
The und	lersigned	d (whose title is supplied below) is a	authorized to act on behalf of the assignee.
Date:	-24	Dry 23, 2003	
		Ha H. Filipowird	
Title:	"Pa	atent Haministrator	
Signatuı	re:	Sta M. Alexand	

ATTACHMENT A

	S. A. A. C. Marie State of the	2.2.4.4.2.2.2	
Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, and Robert S. Langer	Atty. Docket No	.: 2846.1001-000
Application No.:	08/655,570	Group:	1615
Filed:	May 24, 1996	Examiner:	R. Bawa
Confirmation No.:	N/A		
Title:	Porous Particles for Pulmor	nary Drug Deliver	у
Patent No.:	N/A	Granted: N/A	
Assignee:	 Massachusetts Institute of the Penn State Research 		
Recordation Date:	1. July 26, 1996 2. March 5, 1998	Reel: 1. 9013 2. 8875	Frames: 1. 0930-0934 2. 0876-0885

Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Abdellaziz Ben-Jebria and Robert S. Langer	Atty. Docket No.:	2846.1001-001
Application No.:	09/194,068	Group:	1619
Filed:	May 23, 1997 (Int'l Filing Date) April 8, 1999 (371(c) Date)	Examiner:	R. Bawa
Confirmation No.:	2765		
Title:	Aerodynamically Light Pa	articles for Pulmona	ry Drug Delivery
Patent No.:	6,503,480	Granted: January	7, 2003
Assignee:	 Massachusetts Institute The Penn State Resear 		
Recordation Date:	 April 8, 1999 April 8, 1999 	Reel: 1. 9923 2. 9925	Frames: 1. 0384-0392 2. 0098-0103
Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Robert S. Langer and Abdellaziz Ben-Jebria	Atty. Docket No.:2	2846.1001-007
Application No.:	09/569,153	Group:	1619
Filed:	May 11, 2000	Examiner:	R. Bawa
Confirmation No.:	N/A		
Title:	Porous Particles for Deep	Lung Delivery (As	Amended)
Patent No.:	6,254,854	Granted: July 3,	2001
Assignee:	 The Penn State Resear Massachusetts Institute 		·
Recordation Date:	 October 30, 2000 July 26, 1996 	Reel: 1. 011211 2. 8875	Frames: 1. 0319-0321 2. 0876-0875

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Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Robert S. Langer and Abdellaziz Ben-Jebria	Atty. Docket No.:	2846.1001-008	
Application No.:	09/888,688	Group:	1616	
Filed:	June 25, 2001	Examiner:	R. Bawa	
Confirmation No.:	2505			
Title:	Porous Particles Comprise Amended)	ing Excipients For	Deep Lung Delivery (As	
Patent No.:	6,436,443B2	Granted: Augus	t 20, 2002	
Assignee:	 The Penn State Resear Massachusetts Institute 			
Recordation Date:	1. October 30, 2000 2. July 26, 1996	Reel: 1. 011211 2. 8875	Frames: 1. 0319-0321 2. 0876-0875	
Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Robert S. Langer and Abdellaziz Ben-Jebria	Atty. Docket No.:	2846.1001-009	
Application No.:	09/891,131	Group:	1616	
	•			
Filed:	June 25, 2001	Examiner:	Mina Haghighatian	
Filed: Confirmation No.:	June 25, 2001 2511	Examiner:	Mina Haghighatian	
Confirmation No.:	2511	les For Deep Lung		
Confirmation No.:	2511 Spray Dried Porous Partic	eles For Deep Lung Granted: Septen ch Foundation	Delivery (As Amended)	

Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Robert S. Langer, and Abdellaziz Ben-Jebria	Atty. Docket No.	: 2846.1001-010
Application No.:	09/888,781	Group:	1616
Filed:	June 25, 2001	Examiner:	Mina Haghighatian
Confirmation No.:	9010		
Title:	Amorphous Porous Partic	les For Deep Lung	Delivery (As Amended)
Patent No.:	6,447,752	Granted: Septer	mber 10, 2002
Assignee:	 The Penn State Resear Massachusetts Institute 		
Recordation Date:	 October 30, 2000 July 26, 1996 	Reel: 1. 011211 2. 8875	Frames: 1. 0319-0321 2. 0876-0875
Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Abdellaziz Ben-Jebria and Robert S. Langer	Atty. Docket No.:	2846.1001-028
Application No.:	10/090,418	Group:	1617
Filed:	March 1, 2002	Examiner:	n/a
Confirmation No.:	8180		
Title:	Aerodynamically Light Pa	articles For Pulmon	ary Drug Delivery
Patent No.:	N/A	Granted: N/A	
Assignee:	The Penn State Research Massachusetts Institute		
Recordation Date:	 April 8, 1999 April 8, 1999 	Reel: 1. 9925 2. 9923	Frame(s): 1. 0098-0102 2. 0384-0392

Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Robert S. Langer, and Abdellaziz Ben-Jebria	Atty. Docket No.:	2846.1001-031
Application No.:	10/209,654	Group:	1616
Filed:	July 30, 2002	Examiner:	Not assigned
Confirmation No.:	5830		
Title:	Porous Particles Compri	sing Excipients For	Deep Lung Delivery
Patent No.:	N/A	Granted: N/A	
Assignee:	 Massachusetts Institu The Penn State Resea 		
Recordation Date:	 March 5, 1998 October 30, 2000 	Reel: 1. 9013 2. 011211	Frames: 1. 0930-0934 2. 0319-0321
Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Abdellaziz Ben-Jebria, and Robert S. Langer	Atty. Docket No.:	2846.1002-000
Application No.:	08/739,308	Group:	1615
Filed:	October 29, 1996	Examiner:	Raj Bawa
Confirmation No.:	N/A		
Title:	Aerodynamically Light P	articles For Pulmor	nary Drug Delivery
Patent No.:	5,874,064	Granted: Februa	ry 23, 1999
	1 36 1 4 7 4	e of Technology	
Assignee:	 Massachusetts Institut The Penn State Resea 		

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Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Abdellaziz Ben-Jebria, and Robert S. Langer	Atty. Docket No	.: 2846.1002-001	
Application No.:	09/211,940	Group:	1615	
Filed:	December 15, 1998	Examiner:	S. Howard	
Confirmation No.:	N/A			
Title:	Aerodynamically Light Pa	rticles For Pulmon	ary Drug Delivery	
Patent No.:	6,136,295	Granted: Octol	ber 24, 2000	
Assignee:		setts Institute of Technology State Research Foundation		
Recordation Date:	1. January 17, 1997 2. January 17, 1997	Reel: 1. 8388 2. 8388	Frames: 1. 0959-0965 2. 0917-0918	
Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Abdellaziz Ben-Jebria, and Robert s. Langer	Atty. Docket No	.: 2846.1002-002	
Application No.:	09/562,988	Group:	1615	
Filed:	May 1, 2000	Examiner:	S. Ho ward	
Confirmation No.:	N/A			
Title:	Aerodynamically Light Pa	rticles For Pulmon	ary Drug Delivery	
Patent No.:	6,399,102	Granted: June 4,	2002	
Assignee:	The Penn State Research Massachusetts Institute			
Recordation Date:	1. August 29, 2000	Reel: 1. 011098	Frames: 1. 0746-0749	

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Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Abdellaziz Ben-Jebria, and Robert S. Langer	Atty. Docket No	o.: 2846.1002-003	
Application No.:	90/006,092	Group:	1616	
Filed:	August 22, 2001	Examiner:	Mina Haghighatian	
Confirmation No.:	7468			
Title:	Aerodynamically Light Part	ticles For Pulmon	ary Drug Delivery	
Patent No.:	5,874,064C1	Certificate Issue	ed: December 10, 2002	
Assignee:	 Massachusetts Institute of The Penn State Research 	<u> </u>		
Recordation Date:	 January 17, 1997 January 17, 1997 	Reel: 1. 8388 2. 8388	Frames: 1. 0959-0965 2. 0917-0918	
Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Abdellaziz Ben-Jebria, and Robert S. Langer	Atty. Docket No	o.: 2846.1002-004	
Application No.:	90/006,094	Group:	1616	
Filed:	August 22, 2001	Examiner:	Mina Haghighatian	
Confirmation No.:	7466			
Title:	Aerodynamically Light Part	ticles For Pulmon	ary Drug Delivery	
Dotont No.	6,136,295C1	Granted: Octo	ber 29, 2002	
Patent No.:	0,130,27301			
Assignee:	Massachusetts Institute of 2. The Penn State Research	of Technology		

Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Abdellazai Ben-Jebria, and Robert S. Langer	Atty. Docket No.	: 2846.1002-005
Application No.:	10/027,212	Group:	1615
Filed:	December 20, 2001	Examiner:	Sharon Lee Howard
Confirmation No.:	1760		
Title:	Aerodynamically Light Part	icles For Pulmona	ry Drug Delivery
Patent No.:	N/A	Granted: N/A	
Assignee:	 The Penn State Research Massachusetts Institute of 		
Recordation Date:	 August 29, 2000 August 29, 2000 	Reel: 1. 011098 2. 011098	Frames: 1. 0746-0749 2. 0720-0724
Applicants:	Justin Hanes, David A. Edwards, Carmen Evora, and Robert L. Langer	Atty. Docket No.	: 2846.1003-000
Application No.:	08/784,421	Group:	1615
Filed:	January 16, 1997	Examiner:	G. Kishore
Confirmation No.:	N/A		
Title:	Particles Incorporating Surf	actants For Pulmo	nary Drug Delivery
Patent No.:	5,855,913	Granted: Janua	ry 5, 1999
Assignee:	 Massachusetts Institute The Penn State Research 		
Recordation Date:	1. March 20, 1997 2. March 20, 1997	Reel: 1. 8531 2. 8529	Frames: 1. 0042-0046 2. 0138-0140

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Applicants:	David A. Edwards, Robert S. Langer, Rita Vanbever, Jeffrey Mintzes, Jue Wang, and Donghao Chen	Atty. Docket No.:	2846.1003-006	
Application No.:	09/394,233	Group:	1616	
Filed:	September 13, 1999	Examiner:	Mina Haghighatian	
Confirmation No.:	3922			
Title:	Preparation of Novel Part	icles For Inhalation		
Patent No.:	N/A	Granted: N/A		
Assignee:	 Massachusetts Institute The Penn State Resear 	.		
Recordation Date:	1. January 3, 2000 2. January 3, 2000	Reel: 1. 010504 2. 010504	Frames: 1. 0362-0367 2. 0329-0333	
Applicants:	Justin Hanes, David A.	Atty. Docket No.:		
	Edwards, Carmen Evora, and Robert S. Langer			
Application No.:	Evora, and Robert S.	Group:	1615 ·	
Application No.:	Evora, and Robert S. Langer	Group: Examiner:	1615 G. Kishore	
* * * · · · · · · · · · · · · · · · · ·	Evora, and Robert S. Langer 09/351,341	-		
Filed:	Evora, and Robert S. Langer 09/351,341 July 12, 1999	Examiner:	G. Kishore	
Filed: Confirmation No.:	Evora, and Robert S. Langer 09/351,341 July 12, 1999 N/A	Examiner:	G. Kishore onary Drug Delivery	
Filed: Confirmation No.: Title:	Evora, and Robert S. Langer 09/351,341 July 12, 1999 N/A Particles Incorporating Su	Examiner: urfactants For Pulmo Granted: Februar e of Technology	G. Kishore onary Drug Delivery	

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Applicants:	David A. Edwards, Robert S. Langer, Rita Vanbever, Jeffrey Mintzes, Jue Wang and Donghao Chen	Atty. Docket No.	: 2846.1003-008	
Application No.:	08/971,791	Group:	1616	
Filed:	November 17, 1997	Examiner:	K. Shelborne	
Confirmation No.:	N/A			
Title:	Preparation of Particles For Inhalation			
Patent No.:	5,985,309	Granted: Nove	mber 16, 1999	
Assignee:	 Massachusetts Institute of Technology The Penn State Research Foundation 			
Recordation Date:	 December 22, 1997 December 22, 1997 	Reel: 1. 9108 2. 9108	Frames: 1. 0667-0671 2. 0695-0702	
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Applicants:	David A. Edwards, Robert S. Langer, Rita Vanbever, Jeffrey Mintzes, Jue Wang, and Donghao Chen	Atty. Docket No.	: 2846.1003-009	
Application No.:	09/752,106	Group:	1616	
Filed:	December 29, 2000			
	December 27, 2000	Examiner:	Mina Haghighatian	
Confirmation No.:	8230	Examiner:	Mina Haghighatian	
Confirmation No.:				
	8230 Particles For Inhalation Hav			
Title:	8230 Particles For Inhalation Hav	ving Sustained Rele Granted: N/A		

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David A. Edwards, Robert S. Langer, Rita Vanbever, Jeffrey Mintzes, Jue Wang, and Donghao Chen	Atty. Docket No.:	2846.1003-010	
09/909,145	Group:	1619	
July 19, 2001	Examiner:	Not Assigned	
7807			
Particles For Inhalation Having Sustained Release Properties			
N/A	Granted: N/A		
Massachusetts Institute of Technology The Penn State Research Foundation			
1. January 3, 2000 2. January 3, 2000	Reel: 1. 010504 2. 010504	Frames: 1. 0362-0367 2. 0329-0333	
	A 44 D = -14 NT = -	2046 1002 011	
Rita Vanbever, Jeffrey Mintzes, Jue Wang, Donghao Chen, Robert S. Langer, and David A. Edwards	Atty. Docket No.:		
Jeffrey Mintzes, Jue Wang, Donghao Chen, Robert S. Langer, and	Group:	N/A	
Jeffrey Mintzes, Jue Wang, Donghao Chen, Robert S. Langer, and David A. Edwards			
Jeffrey Mintzes, Jue Wang, Donghao Chen, Robert S. Langer, and David A. Edwards 60/059,004	Group:	N/A	
Jeffrey Mintzes, Jue Wang, Donghao Chen, Robert S. Langer, and David A. Edwards 60/059,004 September 15, 1997	Group: Examiner:	N/A	
Jeffrey Mintzes, Jue Wang, Donghao Chen, Robert S. Langer, and David A. Edwards 60/059,004 September 15, 1997 N/A	Group: Examiner:	N/A	
Jeffrey Mintzes, Jue Wang, Donghao Chen, Robert S. Langer, and David A. Edwards 60/059,004 September 15, 1997 N/A Preparation of Novel Part	Group: Examiner: icles for Inhalation	N/A	
	David A. Edwards, Robert S. Langer, Rita Vanbever, Jeffrey Mintzes, Jue Wang, and Donghao Chen 09/909,145 July 19, 2001 7807 Particles For Inhalation H N/A 1. Massachusetts Institute 2. The Penn State Resear 1. January 3, 2000 2. January 3, 2000	David A. Edwards, Robert S. Langer, Rita Vanbever, Jeffrey Mintzes, Jue Wang, and Donghao Chen 09/909,145 Group: July 19, 2001 Examiner: 7807 Particles For Inhalation Having Sustained Re N/A Granted: N/A 1. Massachusetts Institute of Technology 2. The Penn State Research Foundation 1. January 3, 2000 2. January 3, 2000 Reel: 1. 010504 2. 010504	

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Applicants:	David A. Edwards, Robert S. Langer, Rita Vanbever, Jeffrey Mintzes, Jue Wang, and Donghao Chen	Atty. Docket No.:	2846.1003-012	
Application No.:	09/006,091	Group:	1616	
Filed:	July 12, 1999	Examiner:	Mina Haghighatian	
Confirmation No.:	7469			
Title:	Particles Incorporating Surfactants For Pulmonary Drug Delivery			
Patent No.:	RE37,053	Granted: February 13, 2001		
Assignee:	 Massachusetts Institute of Technology The Penn State Research Foundation 			
Recordation Date:	 March 20, 1997 March 20, 1997 	Reel: 1. 8531 2. 8529	Frames: 1. 0042-0046 2. 0138-0140	
Applicants:	David A. Edwards, Robert S. Langer, Rita Vanbever, Jeffrey Mintzes, Jue Wang, and Donghao Chen		o.: 2846.1003-013	
Application No.:	90/006,093	Group:	1616	
Filed:	August 22, 2001	Examiner:	Mina Haghighatian	
Confirmation No.:	7467			
Title:	Preparation Of Particles For Inhalation			
Patent No.:	5,985,309 C1	Granted: Dece	mber 31, 2002	
Assignee:	Massachusetts Institute of Technology The Penn State Research Foundation			
Recordation Date:	1. December 22, 1997	Reel: 1. 9108	Frames: 1. 0667-0671	

Applicants:	Rita Vanbever, Robert S. Langer, David A. Edwards, Jeffrey Mintzes, Jue Wang, and Donghao Chen	Atty. Docket No.:	2846.1003-014	
Application No.:	10/094,955	Group:	1616	
Filed:	March 7, 2002	Examiner:	Mina Haghighatian	
Confirmation No.:	7624			
Title:	Particles For Inhalation Having Sustained Release Properties			
Patent No.:	N/A	Granted: N/A		
Assignee:	 The Penn State Research Foundation Massachusetts Institute of Technology 			
Recordation Date:	1. November 7, 2002 2. November 7, 2002	Reel: 1. 013470 2. 013468	Frames: 1. 0864-0867 2. 0360-0368	
Application No.:	10/420,071	Group:	Not assigned	
Filed:	April 18, 2003	Examiner:	Not assigned	
Confirmation No.:	N/A		•	
Title:	Particles for Inhalation Having Sustained Release Properties			
Patent No.:	N/A	Granted: N/A		
Assignee:	Massachusetts Institute of Technology The Penn State Research Foundation			
Recordation Date:	1. August 13, 2001 2. August 13, 2001	Reel: 1. 012078 2. 012078	Frames: 1. 0156-0164 2. 0137-0140	